

Airspace Flow Program Modeling in the Future ATC Concept Evaluation Tool, Phase I

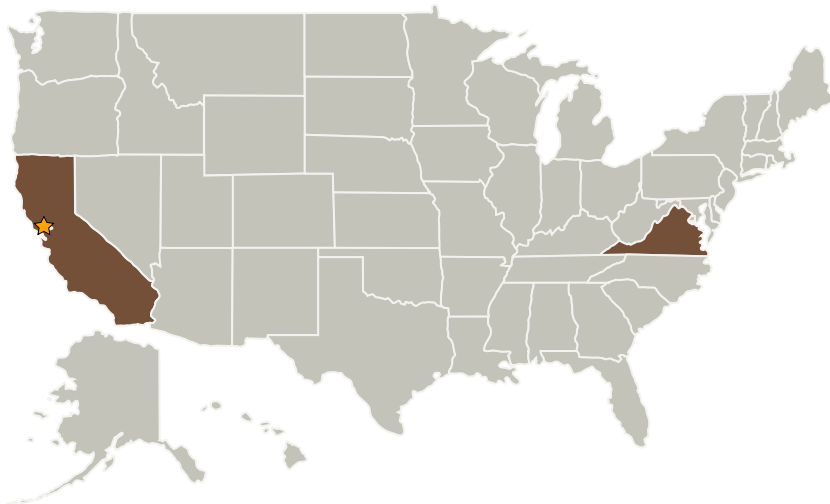
Completed Technology Project (2007 - 2007)



Project Introduction

The Airspace Flow Program (AFP) is a new Traffic Flow Management (TFM) control technique that has entered operation in 2006. AFPs use two existing technologies, Ground Delay Programs (GDPs) and Flow Constrained Areas (FCAs), to reduce demand on constrained areas of the airspace by issuing delays to be applied pre-departure. The operational use of AFPs during the 2006 severe weather season was received positively by the TFM community. However, there are significant aspects of AFP operational characteristics that differ from the previous airport-based GDPs. NASA's FACET model has already contributed significantly to the research and evaluation of TFM concepts. As the JPDO continues to refine its vision for the Next Generation Air Transportation System, additional capabilities in FACET will support its use as a critical tool for further NASA research. The development of an AFP model for FACET is an essential addition to support research and analysis of both current and future TFM operations. Mosaic ATM proposes to conduct detailed analysis of AFP operations and to develop an AFP model for FACET.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★ Ames Research Center(ARC)	Lead Organization	NASA Center	Moffett Field, California
Mosaic ATM, Inc.	Supporting Organization	Industry	Leesburg, Virginia



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Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Ames Research Center (ARC)

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

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Primary U.S. Work Locations

California

Virginia

Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Technology Areas

Primary:

- TX16 Air Traffic Management and Range Tracking Systems
 - └ TX16.3 Traffic Management Concepts